$Textbook\ Alignment\ to\ the\ Utah\ Core-Math\ 7$

This alignment has been completed using an ' (<u>www.schools.utah.gov/curr/im</u>	"Independent Alignment Vendor" from <u>c/indvendor.html.</u>) Yes No		
Name of Company and Individual Conducting Alignment:			
A "Credential Sheet" has been completed on the above comp	oany/evaluator and is (Please check one of	the following):	
☐ On record with the USOE.			
☐ The "Credential Sheet" is attached to this alignment	•		
Instructional Materials Evaluation Criteria (name and grade	e of the core document used to align): I	Math 7 Core Curriculum	ì
Title:	ISBN#:		
Publisher:			
Overall percentage of coverage in the Student Edition (SE) an	nd Teacher Edition (TE) of the Utah St	tate Core Curriculum: _	
Overall percentage of coverage in ancillary materials of the U	Jtah Core Curriculum:	%	
STANDARD I: Students will expand number sense to understa	and, perform operations, and solve pro	blems with rational num	ibers.
Percentage of coverage in the student and teacher edition for Standard I:%	Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard I:%		
OBJECTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓

Objective 1.1: Represent rational numbers in a variety of ways. a. Demonstrate multiple ways to represent whole numbers, decimals, fractions, percents, and integers using models and real-life examples. b. Simplify numerical expressions with whole number exponents using order of operations, and recognize that any positive number to the 0 power is 1. c. Represent numbers greater than one using scientific notation. d. Select the most appropriate form of a rational number for a given context.	
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Objective 1.2: Compare and order rational numbers,	
including positive and negative fractions, positive and	
negative mixed numbers, and positive and negative	
decimals.	
a. Identify, read, and locate rational numbers on a number	
line.	
b. Compare pairs of rational numbers in different forms.	
c. Order rational numbers with and without a number line.	
Objective 1.3: Explain relationships and equivalences among	
rational numbers.	
a. Find equivalent forms for common fractions, decimals,	
percents, and ratios, including repeating or terminating	
decimals.	
b. Predict the effect of operating with fractions, decimals,	
percents, and integers as an increase or a decrease of the	
original value.	
c. Recognize and use the identity properties of addition and	
multiplication, the multiplicative property of zero, the	
commutative and associative properties of addition and	
multiplication, and the distributive property of	
multiplication over addition.	
d. Recognize and use the inverse operations of adding and	
subtracting a fixed number, multiplying and dividing by	

a fixed number, and computing squares of whole numbers and taking square roots of perfect squares. Objective 1.4: Model meanings of ratios and operations with rational numbers. a. Demonstrate that the fraction a over b represents a divided by b. b. Recognize percents as ratios based on 100 and decimals as ratios based on powers of 10. c. Extend the multiplication of whole numbers to multiplication of fractions using area models, measurement models, and the number line. d. Compare the division of whole numbers to the division of fractions using area or set models, the number line, and missing factors. Objective 1.5: Solve problems involving rational numbers. a. Compute fluently using all four operations with integers and positive fractions and decimals. b. Solve problems using factors, multiples, prime factorization, relatively prime numbers, and common divisibility rules. c. Solve application problems involving rational numbers. d. Determine if an answer is reasonable using estimation. STANDARD II: Students will use proportional reasoning to solve problems. Percentage of coverage in the student and teacher edition for Standard II:					
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Standard II:	STANI	OARD II: Students will use proportional reasoning to solv	ve problems.		
Standard II:		1 1	-		
OBJECTIVES & INDICATORS Coverage in Student Edition (SE) and Teacher Edition (TE) (pg #'s, etc.) Coverage in Ancillary Material (titles, pg #'s, etc.) in TE, SE or ancillaries Objective 2.1: Solve problems involving ratios, rates, proportions and percentages.				overed in	
proportions and percentages. a. Solve ratio and rate problems using informal methods	Objectives & Indicators				in TE, SE or
	a.	Solve ratio and rate problems using informal methods involving multiplication and division.			

b.	Solve percent problems using ratio and proportion,			
	including problems involving discounts, interest, taxes,			
	tips, and percent increase or decrease.			
c.	Solve problems involving proportions, rates, and			
C.	measures.			
Objec	tive 2.2: Apply the properties of proportionality to			
	ent units of measurement.			
a.	Convert from one unit of measurement to an equivalent			
	unit of measurement in the same system using a given			
	conversion factor.			
b.	Understand that in a proportional relationship, all			
c.	dimensions change by the same scale factor. Create and interpret scale drawings and approximate			
C.	distance on maps using proportions.			
STANI	DARD III: Students will develop fluency with the language	 	e and renresent relationshins	
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Percentage of coverage in the student and teacher edition for Standard III:		Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard III: %		
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Овје	CTIVES & INDICATORS	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
Objec	tive 3.1: Evaluate, simplify, and solve algebraic			
expre	ssions and equations.			
a.	Write a variable expression to identify pattern			
	relationships, and use those expressions to make			
h	predictions.			
b.	Translate verbal expressions into algebraic expressions. Simplify and evaluate algebraic expressions.			
<u>c.</u> d.	Show that performing the same operation on both sides			
u.				ı
	of an equation will produce an equivalent equation.			

	The form $ax + b = c$, $ax + b < c$, or $ax + b > c$.			
Objec	tive 3.2: Represent relationships using graphs, tables,			
and o	ther models.			
a.	Identify integer coordinates when given the graph of a			
	point on a rectangular coordinate system.			
b.	Graph ordered pairs of integers on a rectangular			
	coordinate system.			
c.	Model real-world problems using graphs, tables,			
	equations, manipulatives, and pictures.			
STANI	OARD IV: Students will use algebraic, spatial, and logical	reasoning to solve geometry and mea	asurement problems.	
	ntage of coverage in the student and teacher edition for	Percentage of coverage not in student or teacher edition, but covered in		
Stand	ard IV:%	the ancillary material for Standard	IV:%	
				Not covered
0		Coverage in Student Edition(SE) and	Coverage in Ancillary Material	in TE, SE or
OBJE	CTIVES & INDICATORS	Teacher Edition (TE) (pg #'s, etc.)	(titles, pg #'s, etc.)	ancillaries 🗸
Objec	tive 4.1: Draw, label, and describe attributes of			
geom	etric figures to determine geometric relationships.			
a.	Draw, label, and describe relationships among line			
	segments, rays, lines, parallel lines, and perpendicular			
	lines, including midpoint of a line segment.			
b.	Draw, label, and describe relationships among vertical,			
	adjacent, complementary, and supplementary angles.			
c.	Draw, label, and describe attributes of angles, triangles,			
	and quadrilaterals.			
Objec	tive 4.2: Determine measurements in metric and			
custo	nary units using appropriate tools and formulas.			
a.	Estimate metric and customary measures using everyday			
	objects and comparisons.			
b.	Measure length, area, volume, and angles to appropriate			
	levels of precision.			

c.	Calculate the measurement of everyday objects using			
	formulas for perimeters and areas of triangles and			
	quadrilaterals, and circumferences and areas of circles			
d.	Calculate the measurement of everyday objects using			
	formulas for surface area and volume of right triangular			
	and rectangular prisms and cylinders.			
STANI	OARD V: Students will understand concepts from probabi	ility and statistics and apply statistica	al methods to solve problems.	
Percentage of coverage in the student and teacher edition for Standard V:			ered in	
OBJEC	ctives & Indicators	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
Objec	tive 5.1: Use basic concepts of probability to determine			
	kelihood of an event and compare the results of			
variou	is experiments.			
a.	Write the results of a probability experiment as a			
	fraction, ratio, or decimal, between zero and one, or as a			
	percent between zero and one hundred, inclusive.			
b.	Compare experimental results with theoretical			
	probability.			
c.	Compare individual, small group, and large group results			
	of a probability experiment.			
Objec	tive 5.2: Display and compare data to make			
predic	ctions and formulate conclusions.			
a.	Display data using tables, scatter plots, and circle graphs.			
b.	Compare two similar sets of data on the same graph.			
c.	Compare two different kinds of graphs representing the			
	same set of data.			
d.	Propose and justify inferences and predictions based on			
	data.			